

# (19) World Intellectual Property Organization International Bureau





# (43) International Publication Date 22 February 2001 (22.02.2001)

**PCT** 

# (10) International Publication Number WO 01/13243 A1

(51) International Patent Classification<sup>7</sup>: 17/60

G06F 12/14,

- (21) International Application Number: PCT/AU00/00972
- (22) International Filing Date: 11 August 2000 (11.08.2000)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

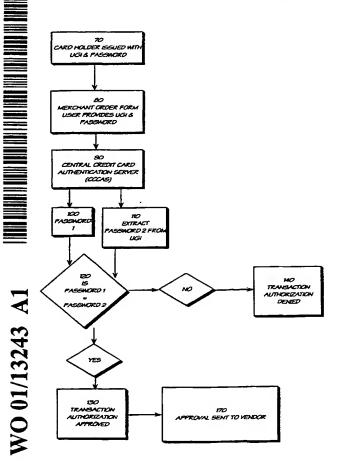
PQ 2184 PQ 2347 13 August 1999 (13.08.1999) AU 23 August 1999 (23.08.1999) AU

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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian

[Continued on next page]

(54) Title: USER AUTHENTICATION SYSTEM



(57) Abstract: A user authentication method to authenticate a registered user of a service over a computer network, the method comprising the steps of: (a) permitting a client user to request a service from a service provider having one or more information pages accessible from said computer network; (b) requiring the client user to submit a first password via said one or more information pages to the service provider; (c) requiring the client user to submit a unique graphic via said one or more information pages to the service provider, said unique graphic including embedded second password data; (d) extracting the second password from said embedded second password data contained within said unique graphic; (e) comparing the submitted first password and extracted second password to determine if a pre-defined relationship exists between the passwords; and (f) granting the client user authentic registered user status if said pre-defined relationship exists and providing access to said service.

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patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

#### Published:

With international search report.

### INTERNATIONAL SEARCH REPORT

International application No. PCT/AU00/00972

A.	CLASSIFICATION OF SUBJECT MATTER	· ·						
Int. Cl. 7:	G06F 12/14, 17/60							
According to	International Patent Classification (IPC) or to bo	th national classification and IPC						
В.	FIELDS SEARCHED							
Minimum docu IPC G06F	Minimum documentation searched (classification system followed by classification symbols)  IPC G06F							
Documentation AU:IPC AS	a searched other than minimum documentation to the e	extent that such documents are included in	the fields searched					
Electronic data WPAT, USF	base consulted during the international search (name PTO	of data base and, where practicable, search	a terms used)					
C.	DOCUMENTS CONSIDERED TO BE RELEVAN	T						
Category*	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.					
Х	US 5821933A, KELLER et al, 13 October	1998 -	32					
X	US 5559961A, BLONDER, 24 September	1996 -	32					
Х	GB 2313460A, ROBERT BOSCH GmbH,	26 November 1997 — 32						
X	X Further documents are listed in the continuation of Box C X See patent family annex							
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier application or patent but published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means  "P" document published prior to the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family								
Date of the actual completion of the international search  7 September 2000								
Name and maili	ng address of the ISA/AU	Authorized officer						
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929  S KAUL Telephone No: (02) 6283 2182								

#### INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU00/00972

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.				
Х	US 5963924A, WILLIAMS et al, 5 October 1999	32				
X	US 5276314A, MARTINO et al, 4 January 1994	32				
		•				

#### INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/AU00/00972

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member					
US	5821933	JP	9128208				
US	5559961	EP	677801	JP	7295673	SG	24112
GB	2313460	DE	19620346	JP	10097500	AU	12513/97
		BG	101319	BR	9701324	CA	2199898
		CN	1168078	CZ	9700716	EP	797379
		NO	970383	NZ	314160	PL	318893
		SG	52925				
US	5963924	AU	28118/97	wo	9741541		
US	5276314	EP	564832	JP	6083777		

**END OF ANNEX** 



# PATENT COOPERATION TRATY PCT

REC'D 0 8 JUN 2001

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## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference						
2181849	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416).				
International Application No.	International Filing Date (day/month/year)		Priority Date (day/month/year)			
PCT/AU00/00972	11 August 2000		13 August 1999			
International Patent Classification (IPC)	or national classification	and IPC				
Int. Cl. 7 G06F 12//14, 17/60						
Applicant						
CREDITGUARD LIMITED e	et-al					
·						
This international preliminary of and is transmitted to the application.			ternational Preliminary Examining Authority			
2. This REPORT consists of a tot	al of 3 sheets, including	ing this cover sheet.				
			ption, claims and/or drawings which have			
been amended and are the Rule 70.16 and Section 6			ectifications made before this Authority (see PCT).			
These annexes consist of a tota						
3. This report contains indications relating	g to the following items	:				
I X Basis of the report	:		·			
II Priority						
III Non-establishmen	t of opinion with regard	to novelty, inventive st	ep and industrial applicability			
IV Lack of unity of in	-					
	ertain documents cited					
VII Certain defects in	Certain defects in the international application					
VIII Certain observatio						
-^						
Date of submission of the demand		Date of completion of the report				
14 February 2001		29 May 2001				
Name and mailing address of the IPEA/AU	A	Authorized Officer				
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTR	KALIA					
E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929		S KAUL				
1 acsimile 140. (02) 0283 3929	1	Telephone No. (02) 6283 2182				



International application No.

## PCT/AU00/00972

I.		Basis of the report					
1.	With regard to the elements of the international application:*						
	X	the international a	pplication as originally filed.				
		the description,	pages , as originally filed,				
			pages, filed with the demand,				
			pages, received on with the letter of				
		the claims,	pages , as originally filed,				
			pages , as amended (together with any statement) under Article 19,				
			pages, filed with the demand,				
			pages, received on with the letter of				
		the drawings,	pages , as originally filed,				
			pages, filed with the demand,				
			pages, received on with the letter of				
		the sequence listin	g part of the description:				
			pages, as originally filed				
			pages, filed with the demand				
			pages, received on with the letter of				
2.	which	h the international ap e elements were ava	age, all the elements marked above were available or furnished to this Authority in the language in opplication was filed, unless otherwise indicated under this item. ilable or furnished to this Authority in the following language which is:				
		the language of a t	ranslation furnished for the purposes of international search (under Rule 23.1(b)).				
		the language of pu	blication of the international application (under Rule 48.3(b)).				
		the language of the and/or 55.3).	e translation furnished for the purposes of international preliminary examination (under Rules 55.2				
3.		regard to any nucle ence listing:	otide and/or amino acid sequence disclosed in the international application, was on the basis of the				
	$\dot{\Box}$	_	ternational application in written form.				
		filed together with	the international application in computer readable form.				
		furnished subseque	ently to this Authority in written form.				
		furnished subseque	ently to this Authority in computer readable form.				
			the subsequently furnished written sequence listing does not go beyond the disclosure in the cation as filed has been furnished.				
		The statement that been furnished	the information recorded in computer readable form is identical to the written sequence listing has				
4.		The amendments h	ave resulted in the cancellation of:				
		the descript	ion, pages				
		the claims,	Nos.				
		the drawing	s, sheets/fig.				
5.			en established as if (some of) the amendments had not been made, since they have been considered to closure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**				
*			ave been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).				
**			aining such amendments must be referred to under item I and annexed to this report				

Claims 32



International application No.

NO

#### PCT/AU00/00972

v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement				
	Novelty (N)	Claims	1-31	YES	
		Claims	32	NO	
	Inventive step (IS)	Claims	1-31	YES	
		Claims	32	NO	
	Industrial applicability (IA)	Claims	1-31	YES	

2. Citations and explanations (Rule 70.7)

#### **NOVELTY**

Claim 32:

US 5821933A

US 5559961A

GB 2313460A

US 5963924A

US 5276314A

Each of these citations fully discloses the features of the claim. All of them explicitly disclose a graphic access code.

#### **INVENTIVE STEP**

Claim 32:

As under novelty above.

	From the INTERNATIONAL BUREAU			
PCT	То:			
NOTIFICATION OF THE RECORDING OF A CHANGE  (PCT Rule 92bis.1 and Administrative Instructions, Section 422)  Date of mailing (day/month/year) 16 July 2001 (16.07.01)	FREEHILLS CARTER SMITH BEADLE Level 32 MLC Centre Martin Place Sydney, New South Wales 2000 AUSTRALIE			
Applicant's or agent's file reference				
2181849:KJR	IMPORTANT NOTIFICATION			
International application No. PCT/AU00/00972	International filing date (day/month/year) 11 August 2000 (11.08.00)			
The following indications appeared on record concerning:      X the applicant the inventor	the agent the common representative			
Name and Address	State of Nationality State of Residence			
Creditguard Limited Level 16 275 Alfred Street	Telephone No.			
North Sydney NSW 2060	Facsimile No.			
	Teleprinter No.			
2. The International Bureau hereby notifies the applicant that the				
the person the name the add				
Name and Address	State of Nationality State of Residence			
	Telephone No.			
	Facsimile No.			
	rausinine ivo.			
	Teleprinter No.			
3. Further observations, if necessary:				
4. A copy of this notification has been sent to:				
X the receiving Office	the designated Offices concerned			
the International Searching Authority	X the elected Offices concerned			
the International Preliminary Examining Authority	other:			
The International Bureau of WIPO	Authorized officer			
34, chemin des Colombettes 1211 Geneva 20, Switzerland	P. BOCCARD (Fax 338.87.40)			
Faccionilla Nia + (41 22) 740 14 25	Tolophone No : (41, 22) 338 83 38			

PCT			From the INTERNATIONAL BUREAU			
			То:			
NOTIFICATION OF THE RECORDING OF A CHANGE  (PCT Rule 92bis.1 and Administrative Instructions, Section 422)  Date of mailing (day/month/year) 31 August 2001 (31.08.01)			FREEHILLS CARTER SMITH BEADLE Level 32 MLC Centre Martin Place Sydney, New South Wales 2000 AUSTRALIE			
Applicant's or agent's file referen						
2181849:KJR			IMPOR	TANT NOTIF	-ICATION	
International application No.			_	(day/month/ye	ar)	
PCT/AU00/00972		11 A	ugust 2000	0 (11.08.00)		
The following indications app     X the applicant	eared on record concerning:  X the inventor	the agen	t State of Na		n representative	
Name and Address  CREDITGUARD LIMITED	)		AU	donanty	AU	
Level 16, 275 Alfred Stro North Sydney 2060 Australia		;	Telephone No.			
			Facsimile N	lo.		
			Teleprinter	No.		
The International Bureau here     X the person	by notifies the applicant that t the name the add	ſ	the nation	onality	the residence	
Name and Address			State of Na AU	tionality	State of Residence AU	
TEFAYE, Joseph, Elie 302/93 Brompton Road Kensington, New South	Wales 2033		Telephone	No.		
Australia			Facsimile No.			
			Teleprinter No.			
3. Further observations, if necessary: The applicant indicated in Box I has been deleted from record. Applicant TEFAYE, Joseph, Elie remains as applicant/inventor, for all designated States.						
4. A copy of this notification has	been sent to:		···			
X the receiving Office		[	the desi	gnated Offices	concerned	
the International Searchin	X the elected Offices concerned					
the International Prelimin	ary Examining Authority		other:			
The International B 34, chemin des ( 1211 Geneva 20,	Colombettes	Authorized		Eugénia SAN	ITOS (Fax 338.87.40)	
F		Talanhana	No - //1 22\	220 02 20		